INSTALLATION MANUAL 2014

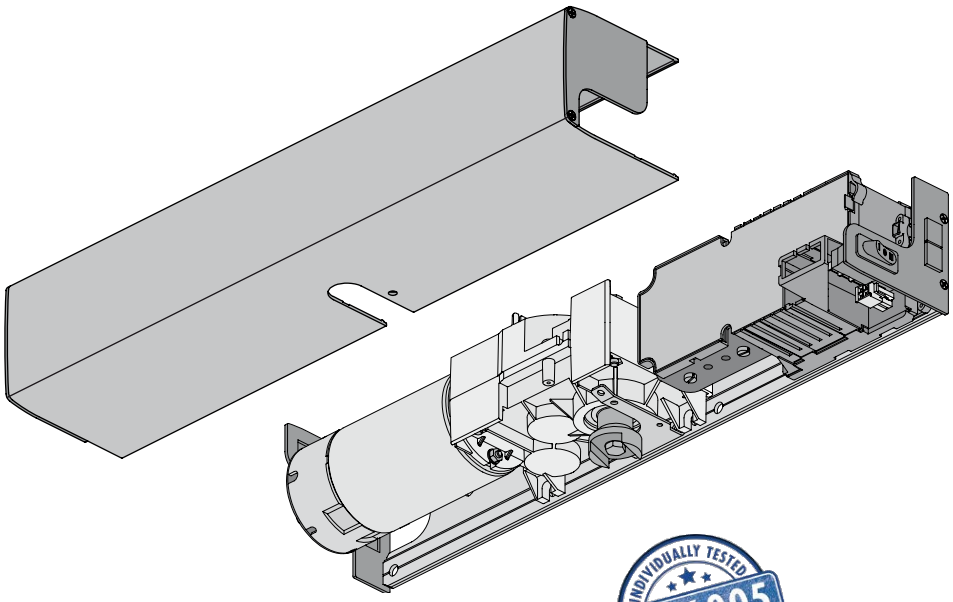
Premis 80

ADSF UK LTD
AUTOMATIC ENTRANCE SPECIALISTS

Technical Help Line

Tel 01275 871787

Sales: 01275 871787
Fax: 01275 870692
Email: info@adsf.co.uk
Website: www.adsf.co.uk



Design with Quality in mind

NAVARRA
Puertas Automatic Doors

CE

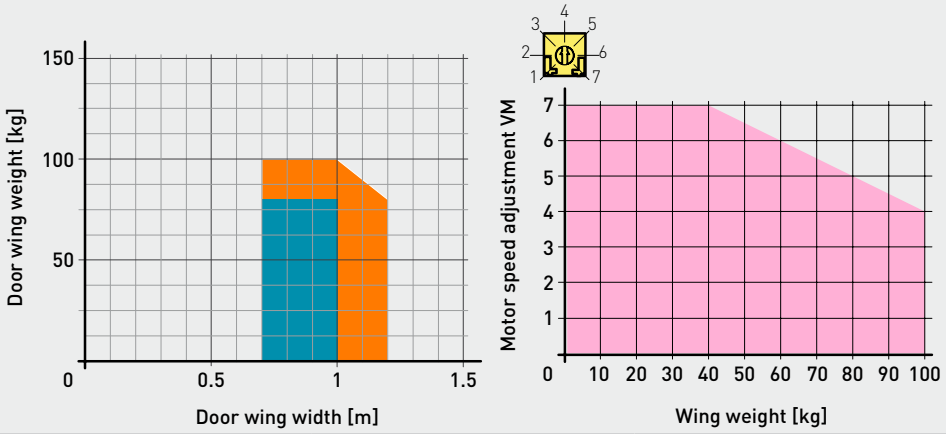
Technical details

Premis 80			
Power supply	230 V~ 50/60 Hz	24 V⎓ (to protect with external fuse)	120 V~ 60 Hz
Absorption	0.5 A	3 A	1 A
Power consumption	120 W	120 W	120 W
Torque	25 Nm	25 Nm	25 Nm
Insulation class	Class 2 ⧈	/	Class 2 ⧈
Opening time	min 3 s /90° max 6 s /90°	min 3 s /90° max 6 s /90°	min 3 s /90° max 6 s /90°
Closing time	min 4 s /90° max 7 s /90°	min 4 s /90° max 7 s /90°	min 4 s /90° max 7 s /90°
Service class	5 - VERY INTENSE	5 - VERY INTENSE	5 - VERY INTENSE
Intermittence	S3=80%	S3=80%	S3=80%
Operation type	Motor opening Motor closing	Motor opening Motor closing	Motor opening Motor closing
Maximum load (1 m wing)	100 kg	100 kg	100 kg
Maximum load (1.2 m wing)	80 kg	80 kg	80 kg
Temperature	min -20 °C max +55 °C	min -20 °C max +55 °C	min -20 °C max +55 °C
Temperature with batteries	min -10 °C max +50 °C	min -10 °C max +50 °C	min -10 °C max +50 °C
Degree of protection	IP30	IP30	IP30
Control panel	EL38	EL38	EL38
Feeder	AL05	/	AL05J
F1 fuse	F1A	/	F2A
Motor power supply	24 V⎓ 3,5 A	24 V⎓ 3,5 A	24 V⎓ 3,5 A
Accessories power supply	24 V⎓ 0,3 A	24 V⎓ 0,3 A	24 V⎓ 0,3 A
Operating instructions			

Recommended dimensions

Limit dimensions

Limit speed



Operating instructions

Service class: 5 (minimum 5 years of working life with 600 cycles per day).
Applications: VERY INTENSE (for shared entrances with very intense pedestrian use).

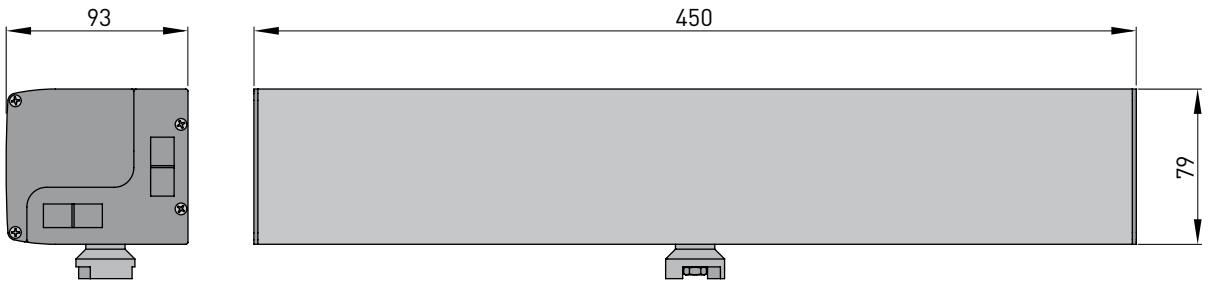
Performance characteristics are to be understood as referring to the recommended weight (approx. 2/3 of maximum permissible weight). When used with the maximum permissible weight a reduction in the above mentioned performance can be expected.

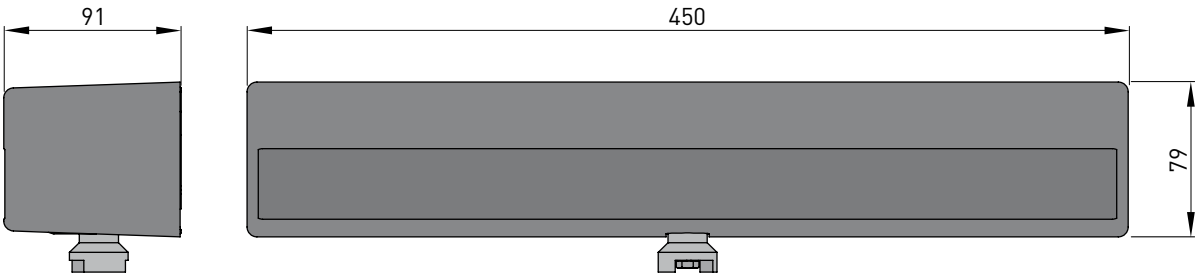
Service class and the number of consecutive cycles are to be taken as merely indicative Having been statistically determined under average operating conditions, and are therefore not necessarily applicable to specifi c conditions of use.

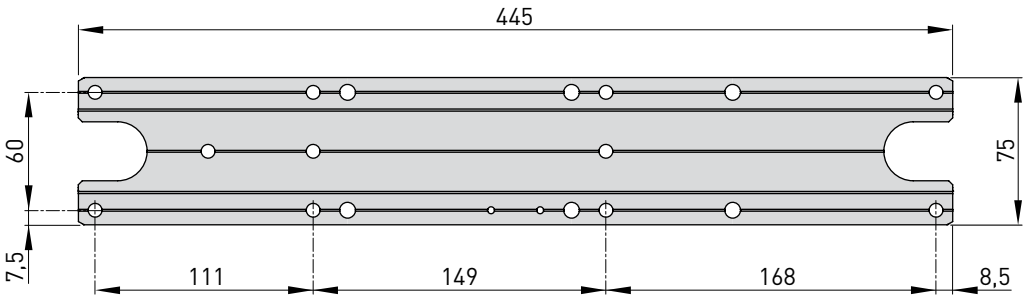
Each automatic entrance has variable elements such as: friction, balancing and environmental factors, all of which may substantially alter the performance characteristics of the automatic entrance or curtail its working life or parts thereof (including the automatic devices themselves). The installer should adopt suitable safety conditions for each particular installation.

Dimensions

Premis 80





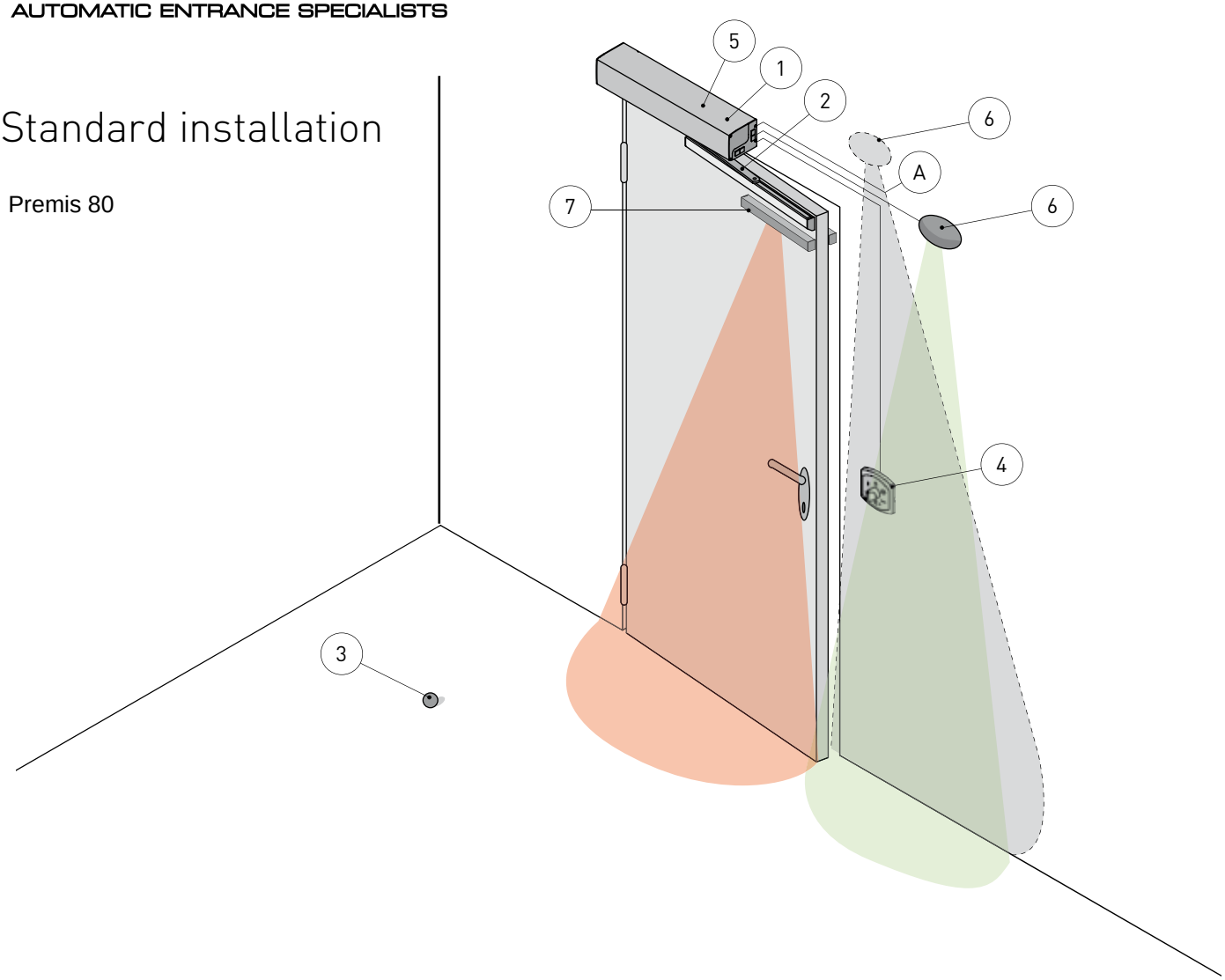


ADSF UK LTD
AUTOMATIC ENTRANCE SPECIALISTS

Premis Swing Operators

Standard installation

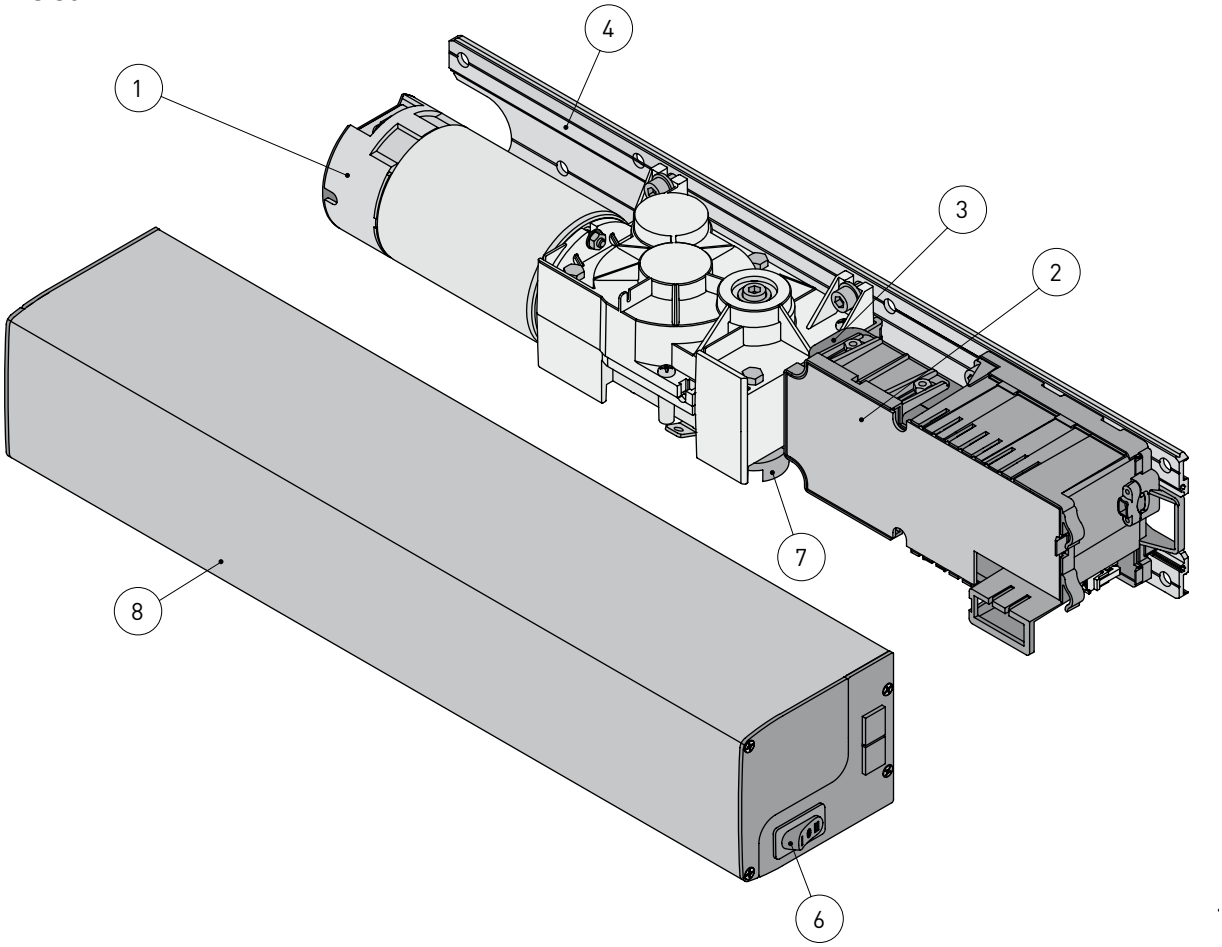
Premis 80



Ref.	Code	Description
1	Premis 80	Drive Unit
2	Push Arm Pull Slide Arm Deep Recess Pull Arm	
3	Door Stop	To prevent door opening beyond 90 degree's
4	COM H COM K	Selector
5	BAT BACK-UP	Battery Kit
6	HR50 UNI	Activation Sensors
7	BEA 4SAFE	On Door Safety Sensors
A		Connect the power supply to an approved omnipolar switch with an opening distance of the contacts of at least 3mm (not supplied). The connection to the mains must be made via an independent channel, separated from the connections to command and safety devices.

Main components

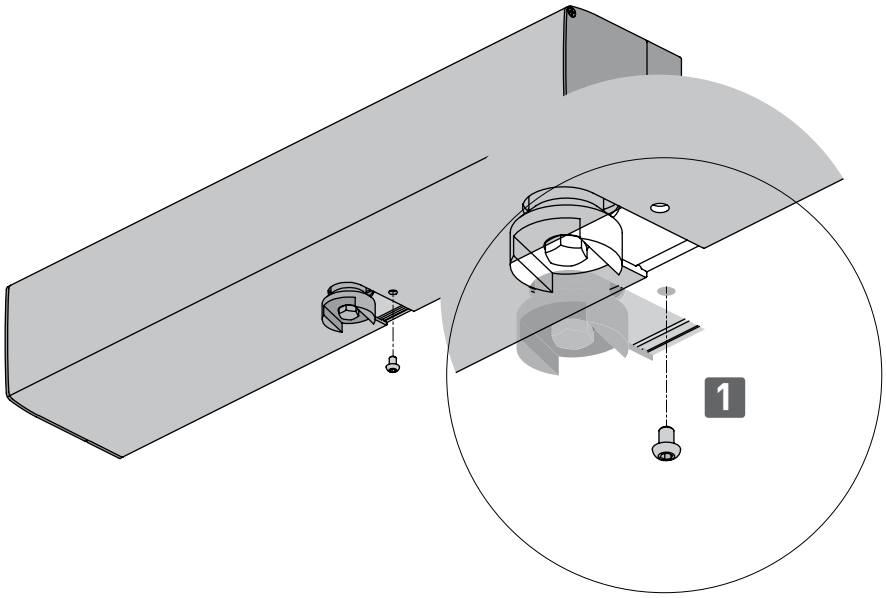
Premis 80

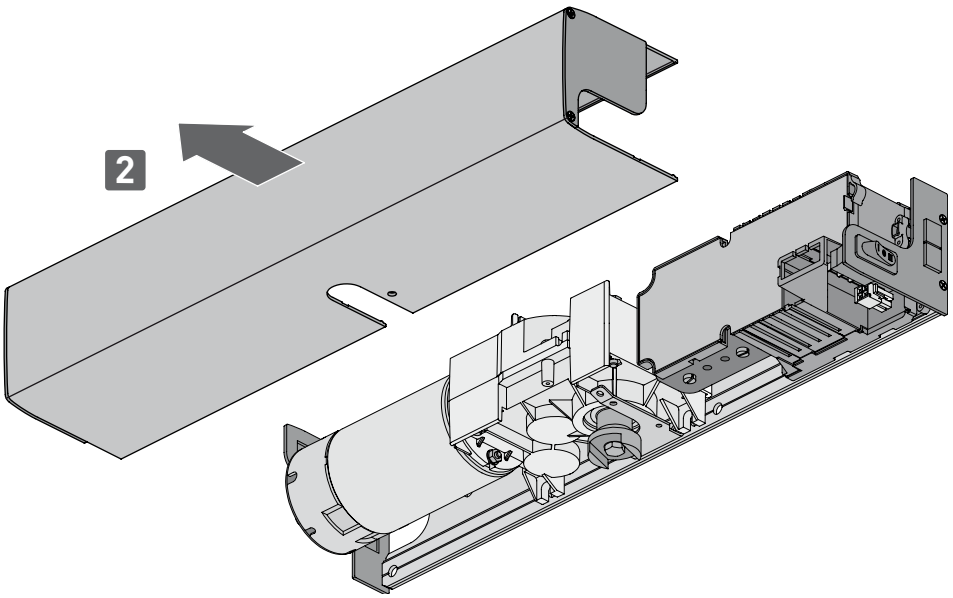


Ref.	Code	Description
1		24 V⎓ motor with encoder
2		Control panel
3		Battery kit
4		Base plate
5		Switching on and off switch
6		Function selector switch
7		Arms support
8		Aluminium casing

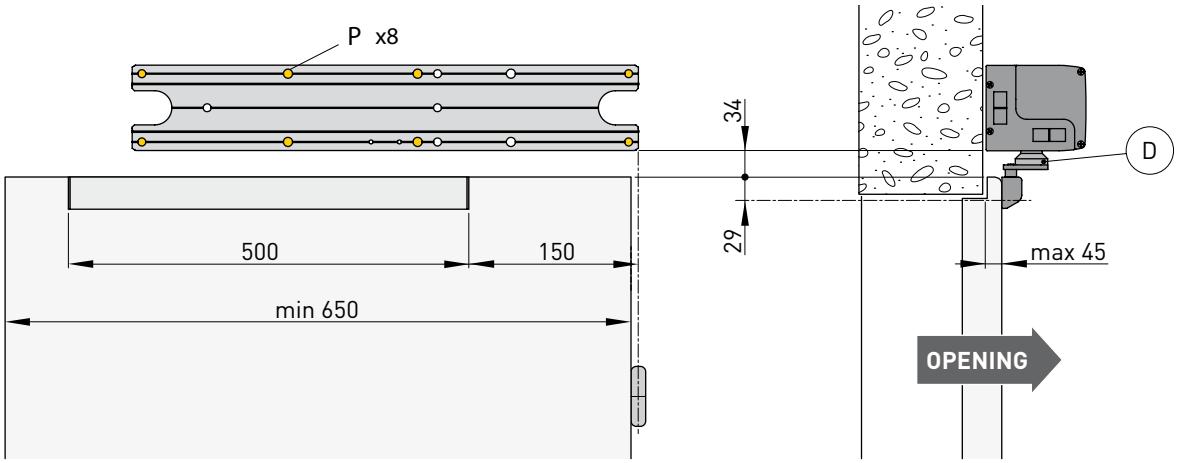
Mechanical installation

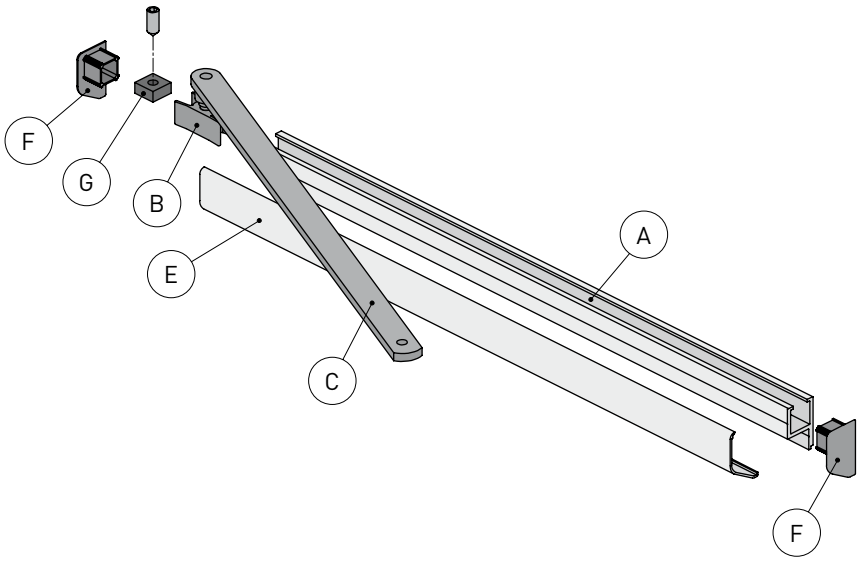
Removing the cover





Installation with Pull sliding arm





Use the sliding arm for doors which open inward (view from automation side).

Remove the casing and fasten the automation on the wall, where indicates (P) securely and make sure it is level, respecting the measurements indicated in the figure: refer to the hinge axis.

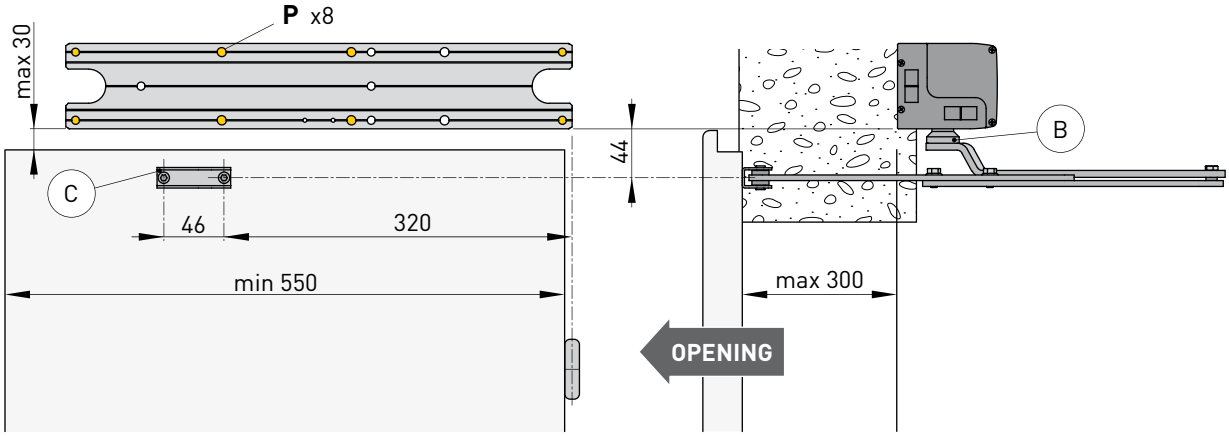
Bore the guide [A] and fasten it to the door.

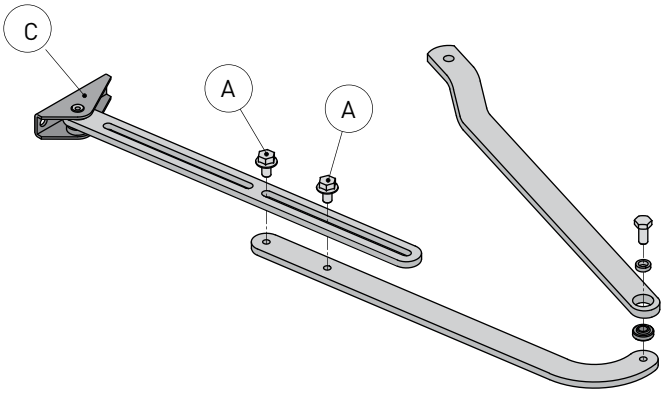
Insert the sliding block [B] of the sliding arm in the guide [A]. Fasten the arm [C] to the automation, ensuring it is inserted in the housing of the arm support [D].

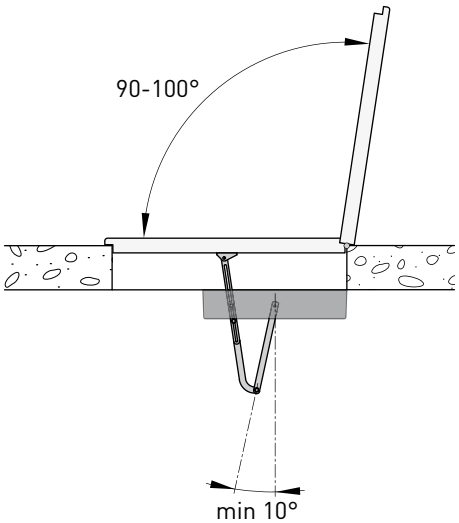
Insert the lid [E] and the two heads [F].

Adjust the inner stop [G] to the most suitable position.

Installation with Push arm







Use the push arm for doors that open outward (view from automation side).

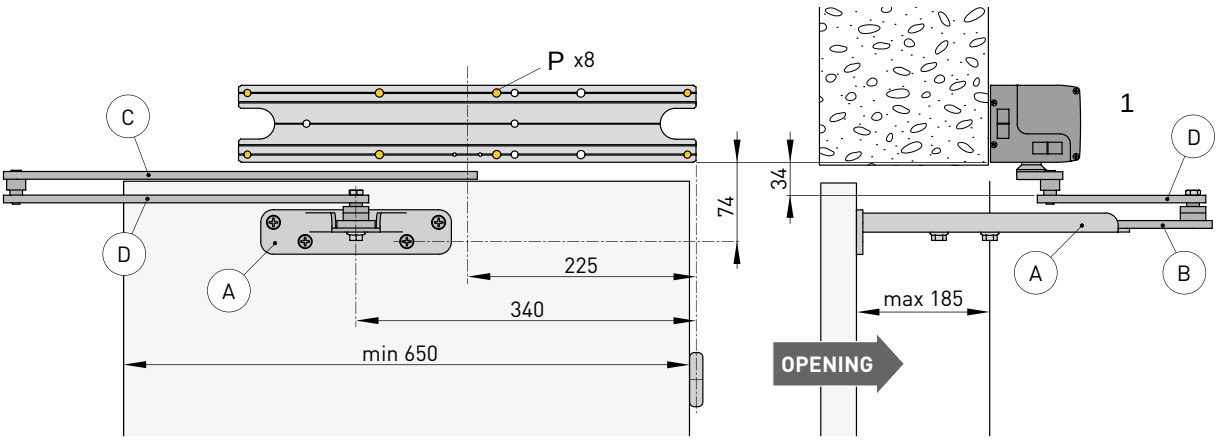
Remove the casing and fasten the automation on the wall, where indicates (P) securely and make sure it is level, respecting the measurements indicated in the figure: refer to the hinge axis.

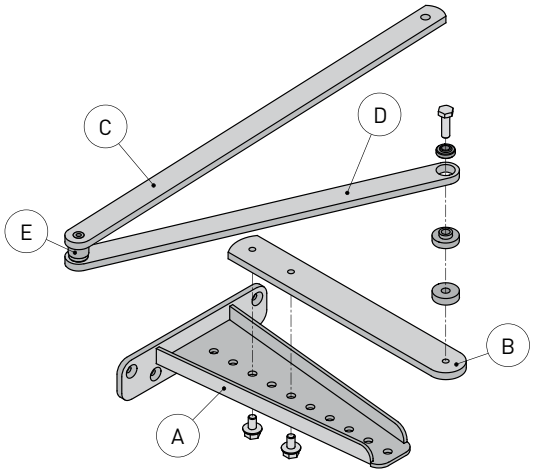
Assemble the arm, without tightening the sliding screws [A], and fasten it to the automation, ensuring it is inserted in the housing of the arm support [B].

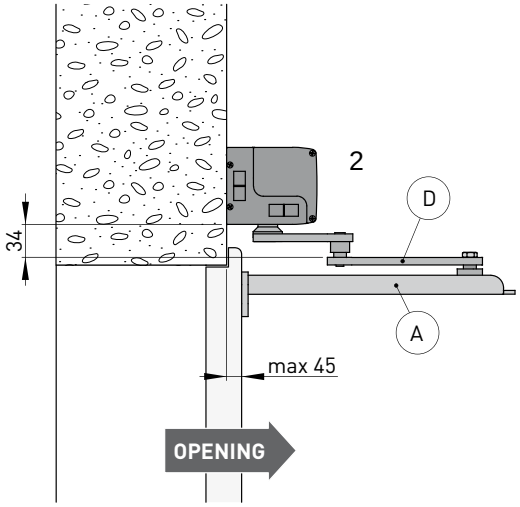
Fasten the bracket [C] to the door.

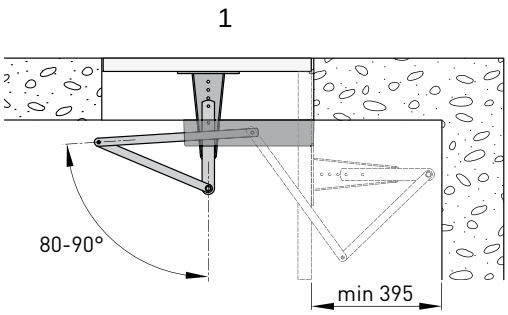
With the door closed, adjust the arm and tighten the sliding screws [A].

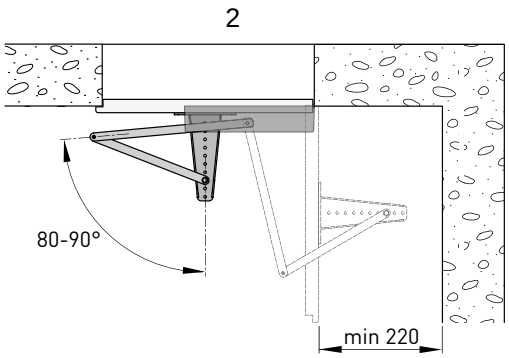
Installation with deep recess 3-lever articulated arm











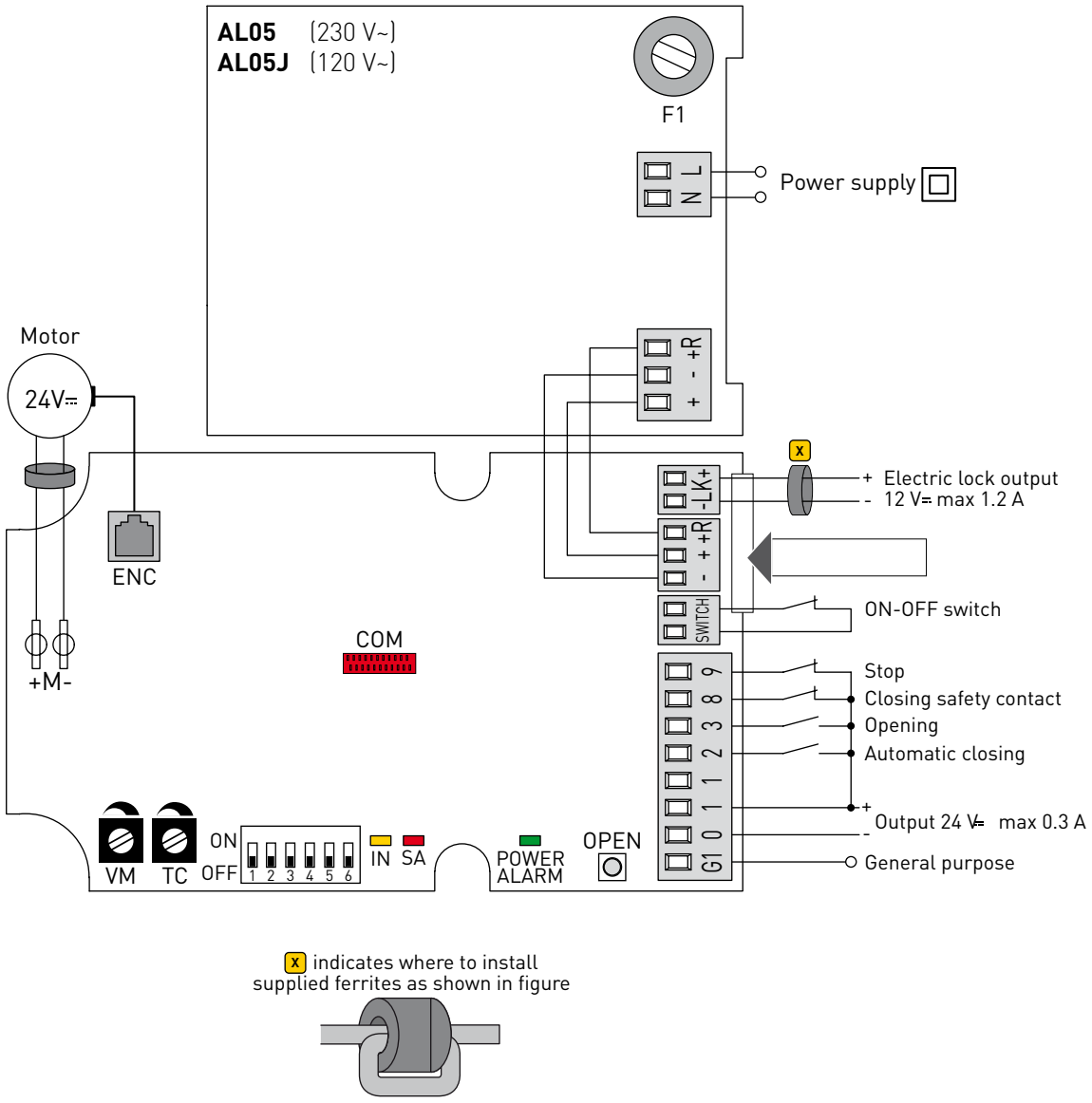
Use the deep recess 3-lever articulated arm for doors which open inward (view from automation side).

Remove the casing and fasten the automation on the wall, where indicates (P) securely and make sure it is level, respecting the measurements indicated in the figure: refer to the hinge axis.

Adjust the length of the bracket [A] and arm [B] so as to form an angle of 80÷90° in relation to the arm [C], with the door closed.
NOTE: the deep recess articulated arm is assembled for door wings with left-hand opening; in case of door wings with right-hand opening, separate the arm [D] from the arm [C] by removing the plug [E] and reassemble the two arms by rotating them by 180°.
For distances between 45 mm and 20 mm, remove the arm [B] and fasten the arm [D] directly to the bracket [A] with the spacer and the screw supplied, so as to form an angle of 80÷90° in relation to the arm [C].

Electrical connections

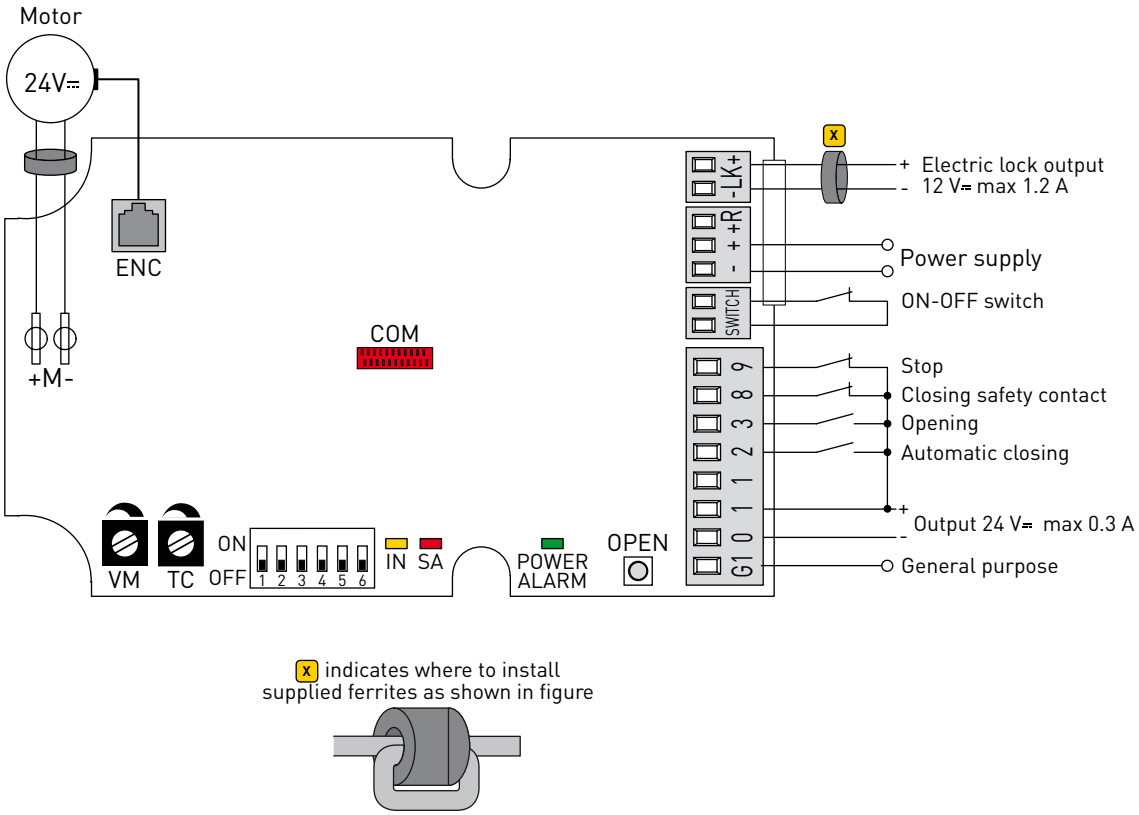
Electrical connections for 230 V~ - 120 V~ power supply



X indicates where to install supplied ferrites as shown in figure

The figure shows the main connections of the control panel

Electrical connections for 24⎓ power supply (to protect with external fuse)



X indicates where to install supplied ferrites as shown in figure

Connection of power supply

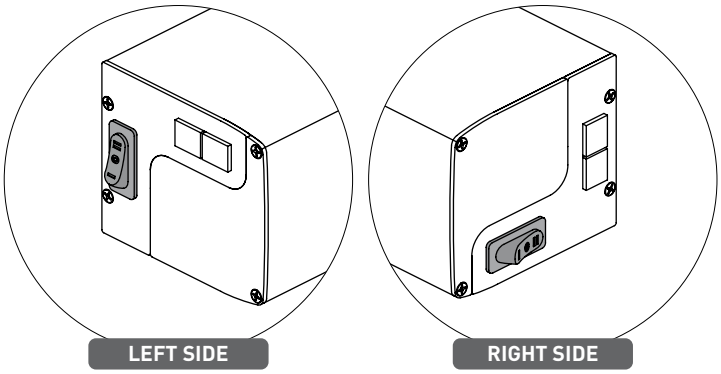
Before connecting the power supply, make sure the plate data correspond to that of the mains power supply.
An omnipolar disconnection switch with minimum contact gaps of 3 mm must be included in the mains supply.
Check that upstream of the electrical installation there is an adequate residual current circuit breaker and a suitable overcurrent cutout.
Use a electric cable and connect to the terminals L (brown), N (blue) in the automation.
Secure the cable using the special cable clamp and remove the outer sheath near the terminal only.
Connection to the mains power supply, in the section outside the automation, is made with independent channels and separated from the connections to the control and safety devices.
Make sure there are no sharp edges that may damage the power supply cable.
Make sure that the mains power supply (230 V) conductors and the accessory power supply (24 V) conductors are separate.

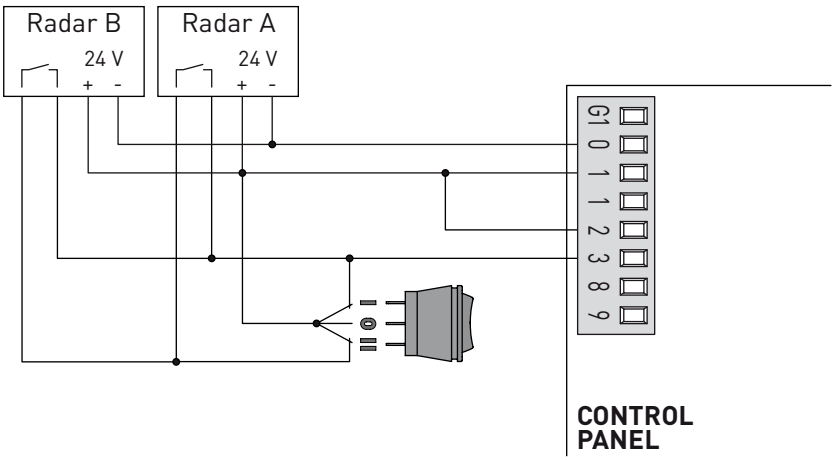
Commands

Command		Function	Description
1 — 2	N.O.	CLOSING	The closing of the contact activates the closing operation.
		AUTOMATIC CLOSING	A permanent contact enables automatic closing.
1 — 3	N.O.	OPENING	The closing of the contact activates the opening operation.
1 — 8	N.C.	CLOSING SAFETY CONTACT	The opening of the contact reverses movement (re-opening) during the closing operation.
1 — 9	N.C.	STOP	The opening of the contact stop all movements and excludes all normal or emergency operations.
OPEN	N.O.	OPENING	The opening operation is activated with a brief press.

Outputs and accessories

Output	Value - Accessories	Description
0 1 - +	24 V⎓ 0.3 A	Accessories power supply. Power supply output for external accessories. NOTE: the maximum absorption of 0.3 A corresponds to the sum of all terminals 1.
-LK+	12 V⎓ 1.2 A	Electric lock. Output for electric lock or electric block. The electric lock power supply has an advance of 0.1 seconds and a duration of 1 second.
G1 0 + -	24 V⎓ 30 mA	General Purpose Output. The output provides a positive of 30 mA whose function can be determined using the COM customisation module.
SWITCH		ON-OFF switch. Switch for activating/deactivating the power supply. When activating (ON), the first operation is carried out with the acquisition of the stop positions. When deactivating (OFF), the line power supply and the batteries (if present) are disconnected from the control panel. WARNING: make a jumper if not in use.
COM		It allows the functioning configurations to be saved or the control panel application type to be defined. WARNING: the module must be inserted and removed with the power supply disconnected.
MOT + - ENC		Motor-encoder connection. Connect the motor and encoder to the control panel by means of the supplied cables.
BAT 1 x 12 V 1,2 Ah		Anti-panic battery kit. With the mains power supply off, the automation will carry out an opening operation at low speed. When the door is open, the power supply is disconnected from the control panel. To charge the batteries, connect the mains power and the battery kit at least 30 minutes before starting the system. WARNING: the batteries must always be connected to the control panel for charging. Periodically check the efficiency of the batteries.
		Continuous mode battery kit. With the mains power supply off, the battery kit will guarantee continuous operating. To charge the batteries, connect the mains power and the battery kit at least 30 minutes before starting the system. WARNING: the batteries must always be connected to the control panel for charging. Periodically check the efficiency of the batteries.





Function Selector Switch

Rif.		Description
I		Door open. 1-3 permanent opening command.
0		Door closed. Radar controls (A-3) are excluded. The door can be opened by control 1-3A or by pushing if the Push&Go function is enabled. Automatic door closing (1-2 contact).
II		Bi-directional operating mode.

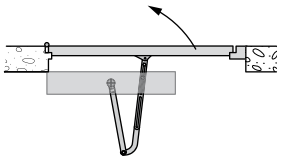
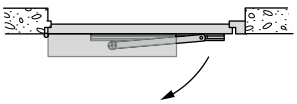
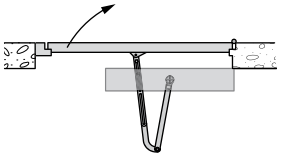
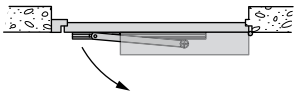
15. Electromagnetic emissions

Pass the cable through the ferrite, make 1 turn and protect it from knocks by using heat-shrink sheathing or similar.
The ferrite must be secured to the cable near the terminal boards (approximately 50 mm).

Adjustments

Description	DIP1	DIP2
Doors with no electric lock and subject to strong winds. If the wind blows the door open, a closing force is triggered by the motor.	OFF	OFF
Doors with electric lock. When the door is closed a closing force is maintained by the motor.	OFF	ON
Push&Go doors without electric lock. Manual pushing of the door activates automatic opening. When the door is closed a closing force is maintained by the motor.	ON	OFF
Push&Go doors with electric lock. Manual pushing of the door activates automatic opening. When the door is closed a closing force is maintained by the motor.	ON	ON

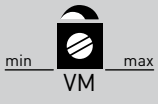
	Description	OFF	ON
DIP3	LowEnergy function. Refer to chapter Doors requirements for disabled	Disabled.	Enabled.
DIP4	Opening direction selection. The opening direction is intended by viewing the automation from the side being examined.	SEE FIGURE	SEE FIGURE
DIP5	Arm type selection.	Push Arm SEE FIGURE	Pull Slide Arm Deep Recess Pull Arm SEE FIGURE
DIP6	**FUTURE USE**	-	-

Push Arm	DIP4	DIP5	Pull Slide Arm	DIP4	DIP5
	ON	OFF		OFF	ON
	OFF	OFF		ON	ON

Trimmer enabling procedure

The VM and TC trimmers affect the force limiting safety function. They must be set as instructed. If not, the modifications will not be accepted and the IN LED will flash.

press the OPEN key for 4 s (IN LED flashes);
set the VA, VC and R1 trimmers within a maximum time of 5 min;
to complete the procedure, press the OPEN key for 2 s or wait for the maximum time to expire.

Trimmer	Description
	Operation speed adjustment. Adjusts the automation operation speed. The closing speed equal to 2/3 of the opening speed. WARNING: set the correct operation speed and check that the operating force and contact force between the door wing and the obstacle is lower than that indicated in the EN 16005 standard.
	Setting automatic closing time. Adjust the time that passes between the end of the opening operation and the start of the automatic closing operation.

Signals

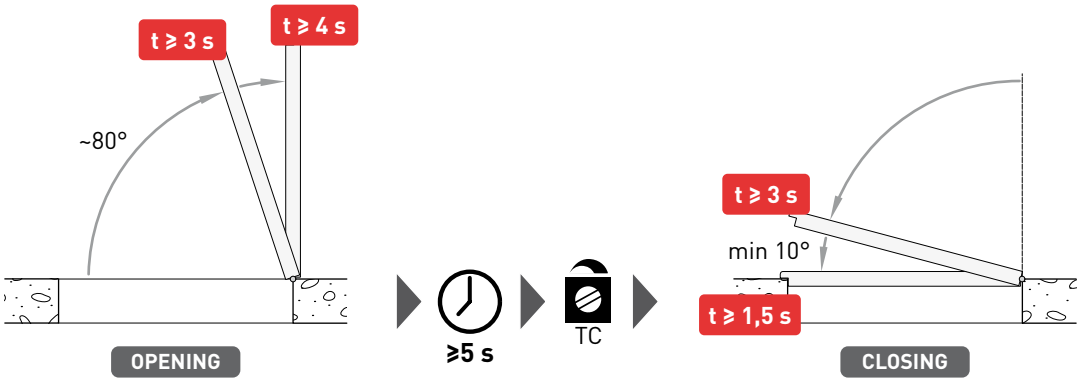
LED	Description	
	On	Flashing
IN	Receipt of a command 1-3.	Change in status of a dip switch or command 1-2. Trimmer enabling procedure in progress.
SA	At least one of the safety contacts is open.	-
POWER ALARM	Power supply on.	Encoder not working or automation fault.

Doors requirements for disabled

If used on doors for the passage of disabled, adjust the VM trimmer so that the opening and clos ing times (excluding deceleration) are the same as, or greater than, those indicated in the table.

		Door wing weight [kg]				
		50	60	70	80	90
Door wing length [mm]	750	3,0 s	3,0 s	3,0 s	3,0 s	3,5 s
	850	3,0 s	3,0 s	3,5 s	3,5 s	4,0 s
	1000	3,5 s	3,5 s	4,0 s	4,0 s	4,5 s
	1200	4,0 s	4,5 s	4,5 s	5,0 s	5,5 s

Make the adjustments indicated in the figure:



Start-up

WARNING: Before performing any type of operation, make sure that the automation is turned off and the batteries are disconnected.
The operations in point 4 are performed without safety devices.
The trimmer can only be adjusted with the automation idle.

1- Select the operating force with DIP3 e select the correct opening direction with DIP4. Set DIP1 and DIP2 according to the type of installation.
2- Set TC trimmer to the minimum and VM trimmer halfway.
3- Make a jumper on the safety devices (1-8) and the stop (1-9).
4- Turn on the power (mains and batteries).
WARNING: the control panel performs an automatic POWER RESET on each start and the first opening or closing manoeuvre is performed at low speed allowing the automatic self-learning of the stop positions (acquisition).
Check that the automation is operating correctly with further opening and closing commands and set the desired speed using the VM trimmer.
WARNING: to set the VM and TC trimmers, the trimmers must be enabled as described on page 20.
5- Remove the jumpers and connect the safety devices (1-8) and the stop (1-9).
6- Adjust the automatic closing with the TC trimmer (enabled by command 1-2).
7- Set the Push&Go opening using DIP1 if required.
8- Connect any accessories and check they operate correctly.
9- If the automation encounters an obstacle during a closing operation, the movement is reversed.
If the automation encounters an obstacle during an opening operation, movement is stopped.
If the obstacle is detected twice consecutively, it is considered as the new stop until it is removed.

WARNING: check the operating force and that the contact force between the door and the obstacle is lower than that indicated by the EN 16005 standard.

NOTE: in the event of servicing or if the control panel is to be replaced, repeat the start-up procedure.

Trouble Shooting

Problem	Possible causes	Remedy
The automation does not open or close.	No power. (POWER ALARM led off).	Check that the control panel is powered correctly.
	Short circuited accessories. (POWER ALARM led off).	Disconnect all accessories from terminals 0-1 (voltage must be 24 V ⎓

Routine maintenance plan

Perform the following operations and checks every 6 months according to intensity of use of the automation.
Disconnect the 230 V~ power supply and batteries (if present) and turn the ON-OFF switch OFF:

- Clean and lubricate the moving components.
- Check that all securing screws are well tightened.
- Check all the electrical connections.
- Check battery efficiency.
- Reconnect the 230 V~ power supply and batteries (if present) and turn the ON-OFF switch ON:
- Check the stability of the door and that the movement is regular and without friction.
- Check the condition of the pintles or hinges.
- Check that all control and safety functions are working correctly.